

GROUND-WATER LEVELS

WAKE COUNTY—Continued

354356078403505. County number, WK-279B; DENR Lake Wheeler Research Station MW-1D Lower Zone (Bedrock well).

LOCATION.--Lat 35°43'56.2", long 78°40'34.1", Hydrologic Unit 03020201, .6 mi south of Tryon Road, .2 mi east of Lake Wheeler Road on NCSU Research Farm. Owner: DENR (North Carolina Department of Environment and Natural Resources), Division of Water Quality.

AQUIFER.--Raleigh Gneiss.

WELL CHARACTERISTICS.--Drilled observation well, depth 302 ft, diameter 6 in., cased to 75 ft, open hole from 75 to 302 ft.

INSTRUMENTATION.--Water-level recorder collecting data at 60-minute intervals. Satellite telemetry at station.

DATUM.--Land-surface datum is 339.36 ft above NGVD of 1929. Measuring point: Top of instrument shelter floor, 2.60 ft above land-surface datum.

REMARKS.--Well is part of Piedmont/Mountains groundwater project. Inflatable packer installed on July 16, 2001. Packer set at 75 ft below land surface. Well is lower zone of MW-1D (WK-279, station number 354356078403503).

PERIOD OF RECORD.--July 2002 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded, 2.80 ft below land-surface datum, Apr. 10, 2003; lowest water level recorded 5.79 ft below land-surface datum, Aug. 15, 2002.

DEPTH TO WATER LEVEL, FEET BELOW LAND SURFACE
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.16	3.93	4.22	3.77	3.91	3.37	3.68	3.77	3.92	3.76	3.89	3.00
2	5.16	4.00	4.21	3.79	3.96	3.17	3.69	3.74	3.98	3.56	3.77	3.06
3	5.15	4.08	4.26	3.76	3.97	3.36	3.71	3.80	3.99	3.09	3.69	3.16
4	5.14	4.12	4.25	3.85	3.96	3.44	3.71	3.84	3.98	3.24	3.72	3.22
5	5.16	4.15	3.94	3.87	4.06	3.44	3.74	3.83	4.04	3.37	3.65	3.28
6	5.21	3.91	3.84	3.89	4.05	3.25	3.82	3.79	4.06	3.47	3.64	3.36
7	5.22	3.96	3.79	3.93	3.72	3.29	3.72	3.80	4.02	3.53	3.67	3.38
8	5.27	4.00	3.81	3.87	3.73	3.35	3.67	3.83	3.77	3.59	3.53	3.38
9	5.28	4.03	3.92	3.91	3.75	3.40	3.36	3.84	3.64	3.62	3.02	3.36
10	5.25	4.04	3.89	3.99	3.67	3.53	2.94	3.85	3.71	3.65	3.07	3.41
11	4.86	4.11	3.90	4.06	3.67	3.58	2.94	3.86	3.76	3.69	2.86	---
12	4.42	---	3.95	4.09	3.73	3.62	3.10	3.89	3.79	3.74	3.02	3.22
13	4.50	---	3.73	4.04	3.81	3.63	3.29	3.94	3.78	3.78	3.19	3.26
14	4.58	---	3.57	4.05	3.84	3.72	3.39	3.99	3.83	3.78	3.22	3.28
15	4.56	3.87	3.68	4.09	3.85	3.72	---	4.04	3.85	3.76	3.06	3.29
16	4.49	3.87	3.88	4.06	3.88	3.57	3.44	4.04	3.66	3.77	3.11	3.35
17	4.55	3.79	4.09	4.05	3.86	3.50	3.50	4.07	3.52	3.81	3.20	---
18	4.62	3.73	4.30	4.10	3.85	3.55	3.58	4.07	3.52	3.82	3.29	---
19	4.63	3.75	4.23	4.09	3.69	3.66	3.61	4.02	3.41	3.83	3.35	3.05
20	4.65	3.83	3.92	4.07	3.67	3.31	3.62	4.03	3.38	3.86	3.39	3.08
21	4.25	3.83	3.92	4.11	3.65	3.13	3.60	4.02	3.37	3.87	3.41	3.08
22	4.07	3.89	3.92	4.16	3.50	3.27	3.58	3.93	3.46	3.87	3.45	3.06
23	4.07	4.03	3.98	4.16	3.46	3.38	3.68	3.75	3.54	3.90	3.46	2.92
24	4.15	4.06	3.89	4.21	3.58	3.47	3.71	3.76	3.60	3.93	3.51	2.91
25	4.21	4.07	3.73	4.19	3.65	3.52	3.67	3.82	3.64	3.97	3.53	2.94
26	4.24	4.09	3.86	4.13	3.67	3.55	3.60	3.78	3.68	3.98	3.53	2.99
27	4.33	4.12	3.87	4.22	3.50	3.63	3.68	3.83	3.71	3.97	3.55	3.01
28	4.26	4.15	3.90	4.19	3.33	3.65	3.71	3.86	3.79	3.96	3.58	3.04
29	3.98	4.11	3.94	4.13	---	3.64	3.71	3.87	3.83	3.96	3.61	3.15
30	3.74	4.10	3.99	4.09	---	3.63	3.75	3.89	3.81	3.86	3.63	3.19
31	3.82	---	3.97	3.93	---	3.68	---	3.89	---	3.88	3.56	---

WTR YR 2003 MEAN 3.78 HIGH 2.86 LOW 5.28

